Appendix D

FAA AIRPORT DESIGN STANDARDS SUMMARY

AIRPORT DESIGN AIRPLANE AND AIRPORT DATA – Visual Approach

Aircraft Approach Category	В
Airplane Design Group	I
Airplane wingspan	
Primary runway end approach visibility minimums are	
Other runway end approach visibility minimums are	
Airplane undercarriage width (1.15 x main gear track)	
	253 feet

RUNWAY AND TAXIWAY WIDTH AND CLEARANCE STANDARD DIMENSIONS

Runway centerline to parallel runway centerline simultaneous operations when wake turbulence is not treated as a factor:

	Group/ARC
VFR operations with no intervening taxiway	700 feet
VFR operations with one intervening taxiway	700 feet
VFR operations with two intervening taxiways	700 feet
IFR approach and departure with approach to near threshold 2500 feet less	
100 ft for each 500 ft of threshold stagger to a minimum of 1000 feet.	

Runway centerline to parallel runway centerline simultaneous operations when wake turbulence is treated as a factor:

100 feet for each 500 feet of threshold stagger	VFR operations IFR departures IFR approach and departure with approach to near threshold	2500 feet 2500 feet
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IFR approaches	* *	0,00,200
Airplane Group/ARC	Airplane	Group/ARC
Runway centerline to parallel taxiway/taxilane centerline	Runway centerline to parallel taxiway/taxilane centerline	225 feet
Runway centerline to edge of aircraft parking	Runway centerline to edge of aircraft parking	200 feet
Runway width	Runway width	60 feet
Runway shoulder width	Runway shoulder width	10 feet
Runway blast pad width	Runway blast pad width	. 80 feet
Runway blast pad length	Runway blast pad length	. 100 feet
Runway safety area width		

Runway safety area length beyond each runway end or stopway end, whichever is greater Runway object free area width Runway object free area length beyond each runway end or stopway end, whichever is greater Clearway width Stopway width	240 feet 400 feet 240 feet 500 feet 60 feet
Obstacle free zone (OFZ):	
Runway OFZ width Runway OFZ length beyond each runway end Inner-approach OFZ width Inner-approach OFZ length beyond approach light system Inner-approach OFZ slope from 200 feet beyond threshold Inner-transitional OFZ slope	400 feet 200 feet 400 feet 200 feet 50:1 0:1
Runway protection zone at the primary runway end:	
Width 200 feet from runway end Width 1200 feet from runway end Length	500 feet 700 feet 1000 feet
Runway protection zone at other runway end:	
Width 200 feet from runway end Width 1200 feet from runway end Length	500 feet 700 feet 1000 feet
Departure runway protection zone:	
Width 200 feet from the far end of TORA Width 1200 feet from the far end of TORA Length	500 feet 700 feet 1000 feet
Threshold surface at primary runway end:	
Distance out from threshold to start of surface Width of surface at start of trapezoidal section Width of surface at end of trapezoidal section Length of trapezoidal section Length of rectangular section Slope of surface	0 feet 400 feet 1000 feet 1500 feet 8500 feet 20:1

Threshold surface at other runway end:

Distance out from threshold to start of surface Width of surface at start of trapezoidal section Width of surface at end of trapezoidal section Length of trapezoidal section. Length of rectangular section. Slope of surface		0 feet 400 feet 1000 feet 1500 feet 8500 feet 20:1
Stope of surface		Group/ARC
Taxiway centerline to parallel taxiway/taxilane centerline	53.2	69 feet
Taxiway centerline to fixed or movable object	35.2	44.5 feet
Taxilane centerline to parallel taxilane centerline	49.6	64 feet
Taxilane centerline to fixed or movable object	31.6	39.5 feet
Taxiway width	22.0	51.1 feet
Taxiway shoulder width		10 feet
Taxiway safety area width	36.0	49 feet
Taxiway object free area width	70.4	89 feet
Taxilane object free area width	63.2	79 feet
Taxiway edge safety margin		5 feet
Taxiway wingtip clearance	17.2	20 feet
Taxilane wingtip clearance	13.6	15 feet
REFERENCE: AC 150/5300-13, Airport Design, including Changes 1 to	hrough 4.	

AIRPORT AND RUNWAY DATA

Airport elevation	253 feet
Mean daily maximum temperature of the hottest month	
Maximum difference in runway centerline elevation	0 feet
Length of haul for airplanes of more than 60,000 pounds	500 miles
Wet and slippery runways	

RUNWAY LENGTHS RECOMMENDED FOR AIRPORT DESIGN

Small airplanes with approach speeds of less than 30 knots	310 feet
Small airplanes with approach speeds of less than 50 knots	820 feet
Small airplanes with less than 10 passenger seats	
75 percent of these small airplanes	2490 feet
95 percent of these small airplanes	3040 feet
100 percent of these small airplanes	3610 feet
Small airplanes with 10 or more passenger seats	4150 feet

Large airplanes of 60,000 pounds or less

75 percent of these large airplanes at 60 percent useful load	5320 feet 7000 feet 5500 feet 7630 feet
Airplanes of more than 60,000 pounds	y 5100 feet
REFERENCE: Chapter 2 of AC 150/5325-4A, Runway Length Requirements Design, no Changes included.	for Airport